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☐ 1. Document ID: US 6831681 B1

L3: Entry 1 of 37

File: USPT

Dec 14, 2004

US-PAT-NO: 6831681

DOCUMENT-IDENTIFIER: US 6831681 B1

TITLE: Preprinted print rolls for use in an image processing device

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/207.2; 348/375

ABSTRACT:

A print roll for use in a camera imaging system said print roll having a backing surface having a plurality of formatted postcard information printed at pre-determined intervals.

4 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 2. Document ID: US 6803989 B2

L3: Entry 2 of 37

File: USPT

Oct 12, 2004

US-PAT-NO: 6803989

DOCUMENT-IDENTIFIER: US 6803989 B2

TITLE: Image printing apparatus including a microcontroller

DATE-ISSUED: October 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Silverbrook; Kia

Balmain

AU

US-CL-CURRENT: 355/18; 345/502, 347/68

ABSTRACT:

An image printing apparatus includes a print head for printing images. A microcontroller that includes a wafer substrate is provided. Processor circuitry is positioned on the wafer substrate. Print head interface circuitry is also positioned on the wafer substrate and is connected between the processor circuitry and the print head. The print head interface circuitry is configured to facilitate communication between the processor circuitry and the print head. Bus interface circuitry that is discrete from the print head interface circuitry is connected to the processor circuitry so that the processor circuitry can communicate with devices other than the print head via a bus.

4 Claims, 238 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 146

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Dram. Data
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☐ 3. Document ID: US 6801929 B1

L3: Entry 3 of 37

File: USPT

Oct 5, 2004

US-PAT-NO: 6801929

DOCUMENT-IDENTIFIER: US 6801929 B1

TITLE: Relevance clause for computed relevance messaging

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donoho; David Leigh	Berkeley	CA		
Hindawi; David Salim	Berkeley	CA		
Lippincott; Lisa Ellen	Berkeley	CA		

US-CL-CURRENT: 709/204; 709/206, 713/200

ABSTRACT:

The invention disclosed herein enables a collection of computers and associated communications infrastructure to offer a new communications process which allows information providers to broadcast information to a population of information consumers. The information may be targeted to those consumers who have a precisely formulated need for the information. This targeting may be based on information which is inaccessible to other communications protocols. The targeting also includes a time element. Information can be brought to the attention of the consumer precisely when it has become applicable, which may occur immediately upon receipt of the message, but may also occur long after the message arrives. The communications process may operate without intruding on consumers who do not

exhibit the precisely-specified need for the information, and it may operate without compromising the security or privacy of the consumers who participate.

30 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 4. Document ID: US 6788336 B1

L3: Entry 4 of 37

File: USPT

Sep 7, 2004

US-PAT-NO: 6788336
DOCUMENT-IDENTIFIER: US 6788336 B1

TITLE: Digital camera with integral color printer and modular replaceable print roll

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/207.2; 348/375

ABSTRACT:

A camera has at least one area image sensor for imaging a scene; a processor for processing said imaged scene in accordance with a predetermined requirement; a color printer for printing out the processed imaged scene on print media via said color printer; and a detachable module for storing print media and printing inks for said color printer.

6 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 152

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 5. Document ID: US 6786420 B1

L3: Entry 5 of 37

File: USPT

Sep 7, 2004

US-PAT-NO: 6786420
DOCUMENT-IDENTIFIER: US 6786420 B1

TITLE: Data distribution mechanism in the form of ink dots on cards

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 235/494

ABSTRACT:

An improved form of information distribution information distribution medium is disclosed comprising a card on which at least one surface thereof contains distributed information encoded as an array of dots printed on the surface in a fault tolerant manner. Preferably, the array of dots is grouped into a plurality of data segment blocks with each data segment block having a delineated border region for accurately spatially locating the dots. The delineated border region can include a series of periodically spaced markers, the periodicity being substantially twice the pitch of the array of dots. The delineated border region can further include at least one line of dots spaced adjacent to the periodically spaced markers. The periodically spaced markers can comprise substantially 2 or 3 adjacent printed dots. Applications and uses of such-a system are also disclosed.

8 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6769009 B1

L3: Entry 6 of 37

File: USPT

Jul 27, 2004

US-PAT-NO: 6769009

DOCUMENT-IDENTIFIER: US 6769009 B1

TITLE: Method and system for selecting a personalized set of information channels

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

US-CL-CURRENT: 709/201; 705/26, 705/27, 705/42, 709/200, 709/202, 709/203, 709/216, 709/217, 709/218, 709/219, 709/227, 709/228, 709/231, 709/232, 709/250

ABSTRACT:

A method for distributing information to a plurality of user stations each configured for communications with a multiplicity of servers via a non-proprietary network, includes steps for providing each of the user stations with a client interface that enables a user at that user station to select a personalized set of information channels from a listing of available information channels, wherein each

information channel carries digital content from at least one of the servers; and providing each of the user stations with the digital content carried by the selected information channels. A corresponding system and user station are also described.

45 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 7. Document ID: US 6750944 B2

L3: Entry 7 of 37

File: USPT

Jun 15, 2004

US-PAT-NO: 6750944
DOCUMENT-IDENTIFIER: US 6750944 B2

TITLE: Programmable camera system with software interpreter

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU
Lapstun; Paul	Balmain			AU

US-CL-CURRENT: 355/18; 396/211, 396/57

ABSTRACT:

A portable camera with inbuilt printer device, has input means for uploading software. The camera includes a digital image capture device, an inbuilt programming language interpreter internally connected to the digital image capture device for the manipulation of the digital image captured by the capture device and a script input means for inputting a self documenting program script for the manipulation and filtering of said captured digital image to produce visual alterations of the image. A card reader optically reads the script printed as an array of dots on one surface of a portable card, which has a visual example of the likely effect of the script on a second surface of the card.

The script is interpreted and executed by the interpreter to modify the captured digital image in accordance with the script to produce a digital image modified, in a manner as visually exemplified on said second surface of said card, which is then printed out on the inbuilt printer device.

14 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 8. Document ID: US 6750901 B1

L3: Entry 8 of 37

File: USPT

Jun 15, 2004

US-PAT-NO: 6750901

DOCUMENT-IDENTIFIER: US 6750901 B1

TITLE: Digital instant printing camera with image processing capability

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/207.2; 348/375

ABSTRACT:

A portable, hand held camera has at least one area image sensor for imaging a scene and a processor for processing said image in accordance with a set of programmable rules. An internal printer prints out said processed image on media stored in a detachable module inside said camera.

Preferable, the internal printer is an ink jet printer and the detachable print media module incorporates an ink supply and a chip to identify the module as authentic.

5 Claims, 231 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6702417 B2

L3: Entry 9 of 37

File: USPT

Mar 9, 2004

US-PAT-NO: 6702417

DOCUMENT-IDENTIFIER: US 6702417 B2

TITLE: Printing cartridge with capacitive sensor identification

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/19; 347/86, 399/12

ABSTRACT:

A printing cartridge includes a housing. An actuating formation is positioned on the housing and is capable of actuating a number of capacitive sensors in an array of such sensors. The actuating formation is configured to represent data relating to at least one of: a serial number of the cartridge, a media and a media colorant, so that the capacitive sensors, when actuated, together generate a signal carrying such data.

37 Claims, 243 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 10. Document ID: US 6665454 B1

L3: Entry 10 of 37

File: USPT

Dec 16, 2003

US-PAT-NO: 6665454
DOCUMENT-IDENTIFIER: US 6665454 B1

TITLE: Dot adjacency compensation in optical storage systems using ink dots

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/299; 345/596, 345/698, 358/1.7, 358/1.8, 358/448, 358/453,
382/267, 382/274, 382/282, 977/DIG.1

ABSTRACT:

A method of accurately detecting the value of a dot of sensed image data, said image data comprising an array of dots and said sensed image data comprising a sampling of said image data at a rate greater than the pitch frequency of said array of dots so as to produce an array of pixels, said method comprising the steps of: determining an expected middle pixel of said array of pixels, said middle pixel corresponding to an expected central location of a corresponding dot; utilizing the sensed value of said middle pixel and the sensed value of a number of adjacent pixels as an index to a lookup table having an output corresponding to the value of a dot centred around the corresponding location of said pixel.

2 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 152

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 11. Document ID: US 6658464 B2

L3: Entry 11 of 37

File: USPT

Dec 2, 2003

US-PAT-NO: 6658464

DOCUMENT-IDENTIFIER: US 6658464 B2

TITLE: User station software that controls transport, storage, and presentation of content from a remote source

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

US-CL-CURRENT: 709/219; 705/26, 705/31, 705/6, 709/206, 709/215, 709/221, 709/227, 709/229, 709/230, 719/315

ABSTRACT:

A method for operating a user station configured for communications with a multiplicity of independently-operated data sources via a non-proprietary network includes steps of receiving a first data object from one of the data sources, and automatically pre-fetching a plurality of additional data objects of arbitrary type referenced by the first data object from respective other ones of the independently-operated data sources identified by information embedded in the first data object. Corresponding software is also described.

78 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 6644771 B1

L3: Entry 12 of 37

File: USPT

Nov 11, 2003

US-PAT-NO: 6644771

DOCUMENT-IDENTIFIER: US 6644771 B1

TITLE: Printing cartridge with radio frequency identification

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/19; 347/6

ABSTRACT:

A printing cartridge includes a housing and a print media roller, carrying a roll of print media is positioned and rotated in the house. A radio frequency tag is positioned on the housing. The radio frequency tag carries data relating to at least one of: a serial number of the cartridge, a media and a media colorant.

9 Claims, 242 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 13. Document ID: US 6636216 B1

L3: Entry 13 of 37

File: USPT

Oct 21, 2003

US-PAT-NO: 6636216

DOCUMENT-IDENTIFIER: US 6636216 B1

TITLE: Digital image warping system

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Lapstun; Paul	Sydney			AU

US-CL-CURRENT: 345/427; 345/646

ABSTRACT:

Method and apparatus for producing a warped image from an input image. Image warp data encoded as an image on a card is read by a data reader in a camera. Each element of the warp map maps a corresponding region in an input image to a pixel location of the output image. The warp map is scaled to the dimensions of the output image so as to produce a scaled warp map, then each element in the scaled warp map is used to determine a contribution region in the input image by using a value corresponding to that element and values corresponding to adjacent elements. An output image color for a pixel of the output image that corresponds to the element of the contribution region is then produced.

17 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 14. Document ID: US 6618117 B2

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L3: Entry 14 of 37

File: USPT

Sep 9, 2003

US-PAT-NO: 6618117

DOCUMENT-IDENTIFIER: US 6618117 B2

TITLE: Image sensing apparatus including a microcontroller

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook, Kia	Balmain			AU

US-CL-CURRENT: 355/18; 348/207.99

ABSTRACT:

An image sensing and processing apparatus includes an image sensor that is capable of generating signals carrying data relating to an image sensed by the image sensor. The apparatus includes a microcontroller. The microcontroller includes a wafer substrate. VLIW processor circuitry is positioned on the wafer substrate. Image sensor interface circuitry is positioned on the wafer substrate and is connected between the VLIW processor circuitry and the image sensor. The image sensor interface circuitry is configured to facilitate communication between the VLIW processor circuitry and the image sensor. Bus interface circuitry that is discrete from the image sensor interface circuitry is connected to the VLIW processor circuitry so that the VLIW processor circuitry can communicate with devices other than the image sensor via a bus.

8 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 149

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. De
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☐ 15. Document ID: US 6611862 B2

L3: Entry 15 of 37

File: USPT

Aug 26, 2003

US-PAT-NO: 6611862

DOCUMENT-IDENTIFIER: US 6611862 B2

TITLE: User station software that controls transport and presentation of content from a remote source

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman, Richard R.	New York	NY	10003	

US-CL-CURRENT: 709/217; 705/1, 705/6, 707/1, 707/10, 709/206, 709/215, 709/219,

709/227, 709/229, 709/230, 710/1

ABSTRACT:

A method for operating a user station that is configured for communications with a multiplicity of independently-operated data sources via a non-proprietary network includes steps for creating a send data object that includes user demographics, and automatically sending the send data object to a selected one of the data sources upon establishing the communication link, without any triggering user action. Corresponding software and user stations are also described.

72 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K001C	Draw D
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☐ 16. Document ID: US 6604130 B2

L3: Entry 16 of 37

File: USPT

Aug 5, 2003

US-PAT-NO: 6604130

DOCUMENT-IDENTIFIER: US 6604130 B2

TITLE: Relevance clause for computed relevance messaging

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donoho; David Leigh	Berkeley	CA		
Hindawi; David Salim	Berkeley	CA		
Lippincott; Lisa Ellen	Berkeley	CA		

US-CL-CURRENT: 709/204; 709/206

ABSTRACT:

The invention disclosed herein enables a collection of computers and associated communications infrastructure to offer a new communications process which allows information providers to broadcast information to a population of information consumers. The information may be targeted to those consumers who have a precisely formulated need for the information. This targeting may be based on information which is inaccessible to other communications protocols. The targeting also includes a time element. Information can be brought to the attention of the consumer precisely when it has become applicable, which may occur immediately upon receipt of the message, but may also occur long after the message arrives. The communications process may operate without intruding on consumers who do not exhibit the precisely-specified need for the information, and it may operate without compromising the security or privacy of the consumers who participate.

6 Claims, 25 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 6594692 B1

L3: Entry 17 of 37

File: USPT

Jul 15, 2003

US-PAT-NO: 6594692

DOCUMENT-IDENTIFIER: US 6594692 B1

**** See image for Certificate of Correction ****

TITLE: Methods for transacting electronic commerce

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

US-CL-CURRENT: 709/219; 705/26, 709/203, 709/225

ABSTRACT:

A novel electronic information transport component can be incorporated in a wide range of electronic information products, for example magazine collections, to automate the mass distribution of updates, such as current issues, from a remote server to a wide user base having a diversity of computer stations. Advantages of economy, immediacy and ease of use are provided. Extensions of the invention permit automated electronic catalog shopping with order placement and, optionally, order confirmation. A server-based update distribution service is also provided. In addition, an offline web browser system, with hyperlink redirection capabilities, a novel recorded music product with automated update capabilities and an Internet charging mechanism are provided.

46 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 6565181 B2

L3: Entry 18 of 37

File: USPT

May 20, 2003

US-PAT-NO: 6565181

DOCUMENT-IDENTIFIER: US 6565181 B2

TITLE: Printing cartridge with switch array identification

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/19; 347/214, 347/86, 399/12

ABSTRACT:

A printing cartridge includes a housing. An array of switch actuators is positioned on the housing. The array of switch actuators represents data relating to at least one of: a serial number of the cartridge, a media and a media colorant so that when a switch array is actuated by the array of switch actuators, a signal carrying such data can be generated.

25 Claims, 244 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 6557054 B2

L3: Entry 19 of 37

File: USPT

Apr 29, 2003

US-PAT-NO: 6557054

DOCUMENT-IDENTIFIER: US 6557054 B2

TITLE: Method and system for distributing updates by presenting directory of software available for user installation that is not already installed on user station

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

US-CL-CURRENT: 710/33; 709/206, 709/219, 709/221, 709/229, 710/16, 710/19, 710/4, 713/1, 713/100, 713/2

ABSTRACT:

A method for distributing information to a plurality of uncoordinated user stations each of which is configured for communications with a multiplicity of independently-operated servers via a non-proprietary network includes steps for providing a distribution service that distributes updates for a plurality of different products, and providing a transporter software component to each of the plurality of uncoordinated user stations, wherein the transporter software component at each user station automatically effects communication sessions with the distribution service via the non-proprietary network for the purpose of obtaining updates for each of at least a subset of the plurality of different products that are installed on that user station. Moreover, a user station, which includes a storage medium, a plurality of different products installed on the

storage medium, and transporter software installed on the storage medium for automatically effectuating communication sessions with a distribution service via a non-proprietary network in order to obtain updates for each of the plurality of different products, and a distribution service that distributes updates for a plurality of different products to a plurality of uncoordinated user stations via a non-proprietary network, are also described.

376 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 20. Document ID: US 6547364 B2

L3: Entry 20 of 37

File: USPT

Apr 15, 2003

US-PAT-NO: 6547364

DOCUMENT-IDENTIFIER: US 6547364 B2

**** See image for Certificate of Correction ****

TITLE: Printing cartridge with an integrated circuit device

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/19; 347/86

ABSTRACT:

A printing cartridge includes a housing. An integrated circuit device is positioned on the housing. The integrated circuit device has memory circuitry that carries data relating to at least one of a serial number of the cartridge, a media and a media colorant.

14 Claims, 237 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 21. Document ID: US 6542645 B1

L3: Entry 21 of 37

File: USPT

Apr 1, 2003

US-PAT-NO: 6542645

DOCUMENT-IDENTIFIER: US 6542645 B1

TITLE: Adaptive tracking of dots in optical storage system using ink dots

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/254; 235/437, 382/309, 977/DIG.1

ABSTRACT:

A method of accurately determining the location of dots of sensed image data amongst an array of dots of image data in a fault tolerant manner, said data stored at a high pitch rate on a card and subject to rotations, warping and marking effects, said method comprising the steps of: processing the image data in a column by column format; recording the dot pattern of previously processed columns of pixels; generating an expected dot pattern at a current column position from the recorded dot pattern of previously processed pixels; comparing the expected dot pattern with an actual dot pattern of sensed image data at said current column position; if said comparison produces a match within a predetermined error, utilising said current column position as an actual dot position otherwise altering said current column position to produce a better fit to said expected dot pattern to thereby produce new actual dot position, and utilizing said actual dot position of the dot at a current column position in the determining of dot location of dots of subsequent columns.

6 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 152

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 6476863 B1

L3: Entry 22 of 37

File: USPT

Nov 5, 2002

US-PAT-NO: 6476863

DOCUMENT-IDENTIFIER: US 6476863 B1

TITLE: Image transformation means including user interface

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/231.9; 977/DIG.1

ABSTRACT:

This patent describes an alternative form of user interface for operating a device such as a camera comprising a card which is inserted in a machine. On the face of the card is contained a visual representation of the effect the card will have on the output of the machine. Preferably the camera device is capable of transforming a sensed image substantially in accordance with the transformation of a standard image comprising the visual representation and the transformation of the sensed image is printed out on the printer. Alternatively the machine comprises a book reader and the card includes a books contents for display by the book reader as indicated by the visual representation on the front of the card. On one surface of the card, the visual representation of the effect is displayed, and on a second surface, an optically encoded representation of the effect able to be read by a sensing device of the machine and decoded so as to produce the effect.

4 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw D
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☐ 23. Document ID: US 6459495 B1

L3: Entry 23 of 37

File: USPT

Oct 1, 2002

US-PAT-NO: 6459495

DOCUMENT-IDENTIFIER: US 6459495 B1

TITLE: Dot center tracking in optical storage systems using ink dots

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 358/520; 977/DIG.1

ABSTRACT:

A method of converting a scanned image comprising scanned pixels to a corresponding bitmap image, said method comprising the steps of, for each bit in the bitmap image; a. determining an expected location in said scanned image of a current bit from the location of surrounding bits in said scanned image; b. determining a likely value of said bit from the values at the locations of expected corresponding pixels in said scanned image; c. determining a centroid measures of the center of the center of the expected intensity at the said expected location; d. determining similar centroid measures for adjacent pixels surrounding said current bit in said scanned image and; e. where said centroid measure is improved relative to said expected location, adjusting said expected location to be an adjacent pixel having an improved centroid measure.

1 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 24. Document ID: US 6442525 B1

L3: Entry 24 of 37

File: USPT

Aug 27, 2002

US-PAT-NO: 6442525

DOCUMENT-IDENTIFIER: US 6442525 B1

TITLE: System for authenticating physical objects

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain NSW 2041			AU
Walmsley; Simon Robert	Epping NSW 2121			AU
Lapstun; Paul	Rodd Point NSW 2046			AU

US-CL-CURRENT: 705/1, 235/379, 235/380, 235/382, 348/441, 348/460, 348/552, 380/30,
705/51, 705/52, 705/64, 705/67, 705/71, 713/169, 713/180, 977/DIG.1

ABSTRACT:

A system for authenticating physical objects in which the authentication key cannot be determined by reverse engineering the software or hardware of a controlling microprocessor. Two highly secure integrated circuits (ChipA and ChipT), both containing the same secret authentication key, are used. ChipA is attached to the physical object to be authenticated. ChipT is attached to the authenticating product. ChipA and ChipT are compared using a secure protocol that utilizes secure authentication circuitry implemented in ChipA and ChipT. The secure protocol is mediated by a system that may be insecure. This has the advantage that the computing devices and software of the authenticating product are not required to be secure. Reverse engineering the authenticating product will not reveal the secret authentication key. This allows standardized highly secure authentication chips to be used, without requiring security to be implemented in a wide range of product specific microcontrollers.

6 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 25. Document ID: US 6431669 B1

L3: Entry 25 of 37

File: USPT

Aug 13, 2002

US-PAT-NO: 6431669

DOCUMENT-IDENTIFIER: US 6431669 B1

TITLE: Method and apparatus for information storage in a portable print roll

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 347/2; 358/296

ABSTRACT:

A print roll for use in an imaging device. The print roll includes imaging media and ink, and further includes an integral integrated circuit device having an on board storage area containing device characteristics of the print media and/or the ink. The integrated circuit device can be located within a cavity of the print roll, and/or located within an epoxy resin.

13 Claims, 233 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 26. Document ID: US 6416154 B1

L3: Entry 26 of 37

File: USPT

Jul 9, 2002

US-PAT-NO: 6416154

DOCUMENT-IDENTIFIER: US 6416154 B1

**** See image for Certificate of Correction ****

TITLE: Printing cartridge with two dimensional code identification

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain			AU

US-CL-CURRENT: 347/19; 347/14

ABSTRACT:

A printing cartridge includes a housing. A two dimensional code is positioned on the housing. The two dimensional code carries data relating to at least one of: a serial number of the cartridge, a media and a media colorant.

18 Claims, 241 Drawing figures

Exemplary Claim Number: 8

Number of Drawing Sheets: 149

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 27. Document ID: US 6415054 B1

L3: Entry 27 of 37

File: USPT

Jul 2, 2002

US-PAT-NO: 6415054

DOCUMENT-IDENTIFIER: US 6415054 B1

TITLE: Target detection for dot region alignment in optical storage systems using ink dots

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/233; 977/DIG.1

ABSTRACT:

A method of rapidly decoding, in real time, sensed image data stored at a high pitch rate on a card. The method includes the steps of detecting the initial position of the image data, and decoding the image data so as to determine a corresponding bit pattern of the image data. Further, the step of decoding commences prior to completion of the step of detecting.

6 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 28. Document ID: US 6362869 B1

L3: Entry 28 of 37

File: USPT

Mar 26, 2002

US-PAT-NO: 6362869

DOCUMENT-IDENTIFIER: US 6362869 B1

TITLE: Authentication system for camera print rolls

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 355/18; 347/101, 347/19

ABSTRACT:

A print roll for location within a portable imaging device. The print roll includes a medium source for providing a print medium, an ink source for providing sufficient ink for printing on said medium, monitoring means to monitor an amount of said medium which has been printed, and an integrated circuit including authorisation means located within the integrated circuit. The portable imaging device utilises the authorisation means to determine if the print roll is of a predetermined standard.

4 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 29. Document ID: US 6362868 B1

L3: Entry 29 of 37

File: USPT

Mar 26, 2002

US-PAT-NO: 6362868

DOCUMENT-IDENTIFIER: US 6362868 B1

TITLE: Print media roll and ink replaceable cartridge

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 355/18; 347/86, 355/72, 399/12

ABSTRACT:

A print media and ink supply means adapted to supply a printing mechanism with ink and printing media upon which the ink is to be deposited, the media and ink supply means including a roll of media rolled upon a media former within the media and ink supply means and at least one ink reservoir integrally formed within the media and ink supply means and adapted to be connected to the printing mechanism for the supply of ink and printing media to the printing mechanism.

16 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 30. Document ID: US 6356936 B1

L3: Entry 30 of 37

File: USPT

Mar 12, 2002

US-PAT-NO: 6356936

DOCUMENT-IDENTIFIER: US 6356936 B1

TITLE: Relevance clause for computed relevance messaging

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donoho; David Leigh	Berkeley	CA		
Hindawi; David Salim	Berkeley	CA		
Lippincott; Lisa Ellen	Berkeley	CA		

US-CL-CURRENT: 709/206; 709/225

ABSTRACT:

The invention disclosed herein enables a collection of computers and associated communications infrastructure to offer a new communications process which allows information providers to broadcast information to a population of information consumers. The information may be targeted to those consumers who have a precisely formulated need for the information. This targeting may be based on information which is inaccessible to other communications protocols. The targeting also includes a time element. Information can be brought to the attention of the consumer precisely when it has become applicable, which may occur immediately upon receipt of the message, but may also occur long after the message arrives. The communications process may operate without intruding on consumers who do not exhibit the precisely-specified need for the information, and it may operate without compromising the security or privacy of the consumers who participate.

28 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 31. Document ID: US 6356715 B1

L3: Entry 31 of 37

File: USPT

Mar 12, 2002

US-PAT-NO: 6356715

DOCUMENT-IDENTIFIER: US 6356715 B1

**** See image for Certificate of Correction ****

TITLE: Prints remaining indicating for camera with variable length print capability

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 396/284; 347/101, 396/429, 396/515

ABSTRACT:

A print roll including an integrated circuit device measuring the amount of consumable materials left within said print roll.

4 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 32. Document ID: US 6317192 B1

L3: Entry 32 of 37

File: USPT

Nov 13, 2001

US-PAT-NO: 6317192

DOCUMENT-IDENTIFIER: US 6317192 B1

TITLE: Utilization of image tiling effects in photographs

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Lapstun; Paul	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 355/18; 347/2, 348/222.1, 396/429

ABSTRACT:

A handheld camera for the output of an image sensed by the camera, including a digital image capture device for the capturing of digital images; a tiling device for automatically adding tiling effects to a captured image to produce a tiled image; and a printer for printing out immediate photos by the camera. The tiling device is algorithmically driven by the captured image to produce the tiling effects.

10 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 33. Document ID: US 6315200 B1

L3: Entry 33 of 37

File: USPT

Nov 13, 2001

US-PAT-NO: 6315200

DOCUMENT-IDENTIFIER: US 6315200 B1

TITLE: Encoded data card reading system

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 235/454; 235/462.01, 235/462.1, 235/462.24, 235/470

ABSTRACT:

A data structure is disclosed encoded on the surface of an object comprising a series of block data regions with each of the block data regions including: an encoded data region containing data to be decoded in an encoded form; a series of clock marks structures located around a first peripheral portion of the encoded data region; and a series of easily identifiable target structures located around a second peripheral portion of the encoded data region. The block data regions can further include an orientation data structure located round a third peripheral portion of the encoded data region. The orientation data structure can comprises a line of equal data points along an edge of the peripheral portion. The clock marks structures can include a first line of equal data points in addition to a substantially adjacent second line of alternating data points located along an edge of the encoded data region. The clock mark structures can be located on mutually opposite sides of the encoded data region. The target structures can comprise a series of spaced apart block sets of data points having a substantially constant value of a first magnitude except for a core portion of a substantially opposite magnitude to the first magnitude. The block sets can further includes a target number indicator structure comprising a contiguous group of the values of the substantially opposite magnitude. The data structure is ideally utilized in a series of printed dots on a substrate surface.

8 Claims, 232 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 34. Document ID: US 6263362 B1

L3: Entry 34 of 37

File: USPT

Jul 17, 2001

US-PAT-NO: 6263362

DOCUMENT-IDENTIFIER: US 6263362 B1

TITLE: Inspector for computed relevance messaging

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donoho; David Leigh	Berkeley	CA		
Hindawi; David Salim	Berkeley	CA		
Lippincott; Lisa Ellen	Berkeley	CA		

US-CL-CURRENT: 709/207; 709/206, 709/225

ABSTRACT:

The invention disclosed herein enables a collection of computers and associated communications infrastructure to offer a new communications process which allows information providers to broadcast information to a population of information consumers. The information may be targeted to those consumers who have a precisely formulated need for the information. This targeting may be based on information which is inaccessible to other communications protocols. The targeting also includes a time element. Information can be brought to the attention of the consumer precisely when it has become applicable, which may occur immediately upon receipt of the message, but may also occur long after the message arrives. The communications process may operate without intruding on consumers who do not exhibit the precisely-specified need for the information, and it may operate without compromising the security or privacy of the consumers who participate.

31 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 35. Document ID: US 6256664 B1

L3: Entry 35 of 37

File: USPT

Jul 3, 2001

US-PAT-NO: 6256664

DOCUMENT-IDENTIFIER: US 6256664 B1

TITLE: Method and apparatus for computed relevance messaging

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donoho; David Leigh	Berkeley	CA		
Hindawi; David Salim	Berkeley	CA		
Lippincott; Lisa Ellen	Berkeley	CA		

US-CL-CURRENT: 709/204; 709/206, 709/225

ABSTRACT:

The invention disclosed herein enables a collection of computers and associated communications infrastructure to offer a new communications process which allows information providers to broadcast information to a population of information consumers. The information may be targeted to those consumers who have a precisely formulated need for the information. This targeting may be based on information which is inaccessible to other communications protocols. The targeting also includes a time element. Information can be brought to the attention of the consumer precisely when it has become applicable, which may occur immediately upon receipt of the message, but may also occur long after the message arrives. The communications process may operate without intruding on consumers who do not exhibit the precisely-specified need for the information, and it may operate without compromising the security or privacy of the consumers who participate.

5 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Reprints	Attachments	Claims	KIMC	Draw D
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☐ 36. Document ID: US 6217165 B1

L3: Entry 36 of 37

File: USPT

Apr 17, 2001

US-PAT-NO: 6217165

DOCUMENT-IDENTIFIER: US 6217165 B1

TITLE: Ink and media cartridge with axial ink chambers

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 347/86

ABSTRACT:

A detachable ink supply unit is disclosed for interconnection to a print head for printing images. The supply unit including a print roll of print media onto which the print head prints images, and an ink cartridge located internally of the print roll and containing a plurality of ink supply reservoirs along an internal axis of the print roll. Each reservoir including an air hole at one end and a pierceable seal at another end for the insertion of an ink channel element for fluid communication of the reservoir with the print head. Further, the air hole can be interconnected to a hydrophobic channel having a winding channel path so as to minimize the possibilities of ink flow through the channel. The unit can further include a series of decurling rollers which pinch the print media and bend the print media in an opposite direction to the direction of bend of the print media on the print roll. The ink supply unit can include a cover portion having a slot defined therein for passage of the print media and the surface surrounding the slot can include a raised portion for engaging a corresponding portion of the print head unit for the accurate alignment of the supply unit relative to the print head.

12 Claims, 232 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 37. Document ID: US 5892909 A

L3: Entry 37 of 37

File: USPT

Apr 6, 1999

US-PAT-NO: 5892909
DOCUMENT-IDENTIFIER: US 5892909 A

TITLE: Intranet-based system with methods for co-active delivery of information to multiple users

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grasso; Charles A.	Scotts Valley	CA		
Schwartz; Richard Lee	Los Altos Hills	CA		

US-CL-CURRENT: 709/201; 709/200, 709/203

ABSTRACT:

An Intranet-based system with methods for co-active information delivery is described. The system allows users to manage the distribution and delivery of information across an enterprise Intranet, the Internet, and common communication channels (e.g., printers, fax, pager and e-mail). The system provides a wizard-like user interface which intuitively walks users through various tasks, including distribution of new documents, updating of existing documents, modifying profiles/policies of documents, groups, roles and individuals. The system provides "Adaptive Distribution" methodology so that, as organizational changes occur, the system ensures that the most current, relevant information is always made available to appropriate eligible subscribers; no additional effort is required from either the subscribers or the distributors. Subscriber lists of a distribution automatically respond to changes in group composition, accommodating new or departing individuals within the organization, as well as accommodating changing organizational roles. As an organization changes, newly eligible recipients are electronically contacted with their new profile. At the same time, newly ineligible people are automatically cut off from the information flow. In this manner, the adaptive methodology ensures that all of these profiles are contextually linked together and changed automatically as new information or context for any part of the profile is updated.

40 Claims, 54 Drawing figures
Exemplary Claim Number: 31
Number of Drawing Sheets: 38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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